

Board of Health, Richmond, Virginia

RULES AND REGULATIONS

GOVERNING

HOUSE DRAINAGE,

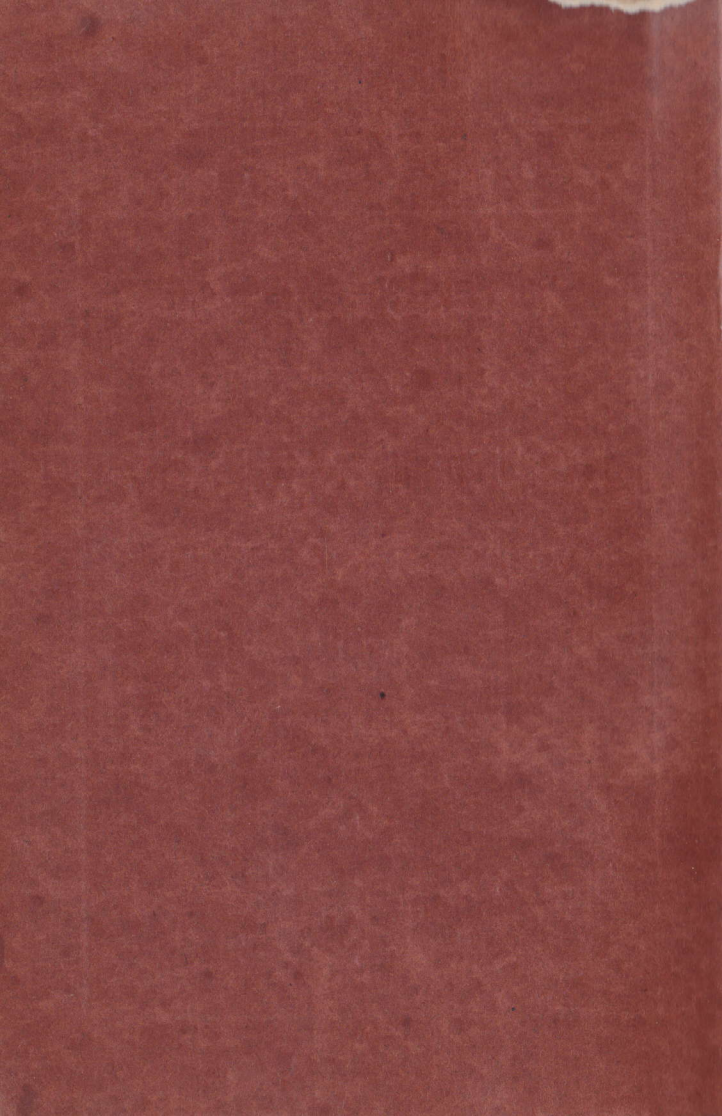
VENTILATION and CESSPOOLS

OF THE

CITY OF RICHMOND, VA.



RICHMOND:
Clyde W. Saunders, City Printer
1906



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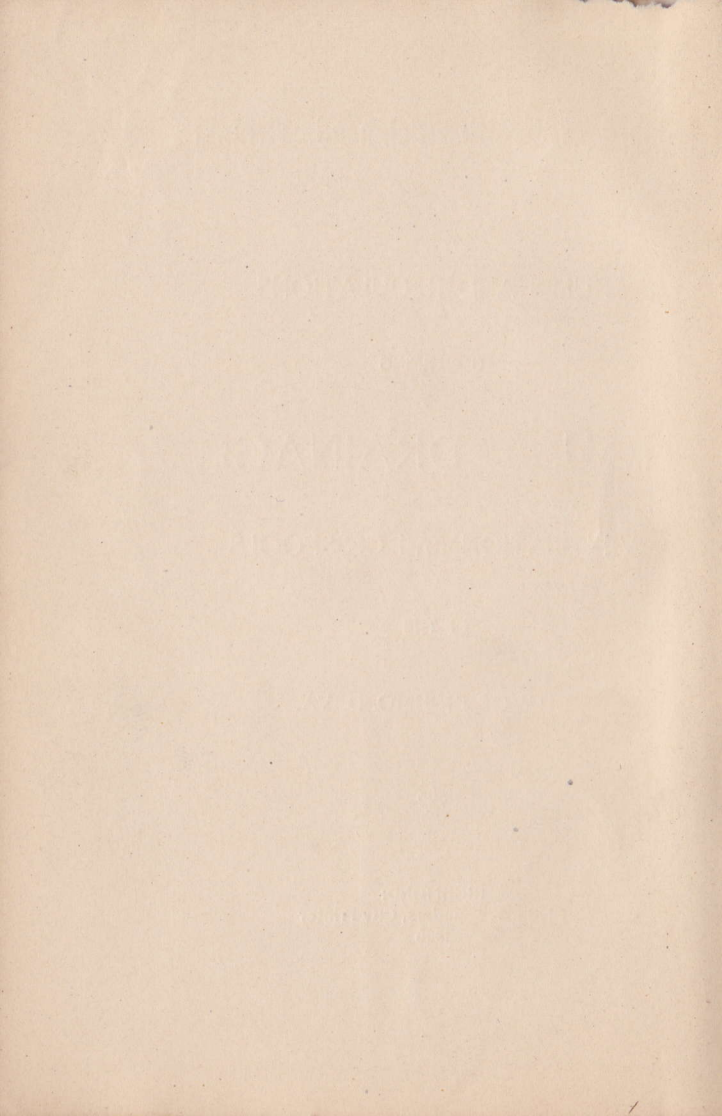
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AN ORDINANCE

Creating the Inspector of Plumbing in the City of Richmond, approved December 14, 1895, and to prescribe certain penalties.

Approved October 15th, 1900.

To Amend and Re-Ordain Sections 24, 26, 35, and 38 of Chapter 31 of the City Ordinances, Concerning the Board of Health, and to Repeal Section 45 of Said Chapter.

Be it ordained by the Council of the City of Richmond, That sections 24, 26, 35, and 38 of Chapter 31 of the City Ordinances, concerning the Board of Health, be amended and re-ordained so as to read as follows, and that section 45 of said chapter be, and is, hereby repealed:

CHAP. 31—Richmond City Code,
1899.—Section 17. It shall be the duty
of the Inspector of Plumbing, under
the direction of the President of the
Board of Health, to sign and issue all
notices and certificates; to keep a daily
record of his work, including all not-
ices and applications received, viola-
tions of these regulations, and all other
matters pertaining thereto; make
monthly and quarterly reports to the
President of the Board of Health. He
shall also report immediately any mat-
ter requiring the immediate attention
of the President of the Board of Health
to said officer.

Duty of In-
spector. Sign
and issue all
notices and
certificates.

Monthly and
quarterly re-
ports.

He shall inspect all houses in course
of erection, alteration, or repair, as
often as may be necessary, and shall
see that all the plumbing, drainage and
sewerage work is done in accordance
with the provisions of these regulations.
All plumbing shall be inspected first,
when the drain, soil, waste and vent-
pipes are run in the building, they shall
be left uncovered, and the plumber shall
report the same at once to the office of
the Inspector of Plumbing for inspec-
tion and again when the fixtures are

placed in position and the work completed.

It shall be the duty of the Inspector of Plumbing, immediately upon written notification by the plumber, to proceed to inspect and pass upon the work; and all inspections shall be made within twenty-four hours after such notification. He shall promptly condemn and order the removal of any defective material, or any work done as to plumbing for drainage or sewerage work. Upon a complete and satisfactory inspection of any work he shall grant a certificate of approval.

Inspector to
pass upon the
work

shall con-
demn and or-
der removal.

He shall receive as compensation for services rendered eleven hundred dollars (\$1,100) per year, payable monthly.

He shall take and subscribe on oath or affirmation before the Mayor or City Clerk that he will faithfully perform the duties of his office, and shall, before entering upon his duties, execute a bond to the City of Richmond in the sum of five hundred dollars (\$500) with surety, to be approved by the Mayor and City Attorney, conditioned.

Oath of office.

Bond, etc.

upon the faithful performance of the duties of his office.

Masters and journeymen to be registered, etc.

SEC. 18. On and after the passage of the foregoing ordinance, every person engaged, or about to engage, in the plumbing business in the City of Richmond, as a master or journeyman, plumber, or any person coming from other places for the purpose of engaging in the plumbing business in the City of Richmond as a master or journeyman plumber, shall appear in person before the said Inspector, and receive a certificate of registry, upon satisfactory proof that he is a master or a practical journeyman plumber; and no other person than a registered plumber shall be allowed to carry on or engage in the plumbing business or make any connection with any sewer, drain, soil or waste-pipe or any pipe connected therewith.

No other person to carry on or engage or make any connection, etc.

Plumber's permit.

No plumber shall be allowed to make a connection to any drain, soil, waste, or vent-pipe or any pipe connected therewith nor shall he make any addition or alteration in the sanitary arrangements of any house without first having re-

ceived a written permit from the Inspector of Plumbing to do so, and it shall be the duty of the Inspector of Plumbing to keep a permit book and a record of all permits issued.

SEC. 19. It shall be the duty of every registered plumber to give immediate notice of any change in his place of business, for correction of the register. Upon retirement from business he shall return his certificate to the then Inspector.

SEC. 20. The plumbing and ventilation in every building shall be separate and independent from the roof to the outside of the foundation walls, and in a row of tenements each tenement shall be deemed a separate house; each flat, apartment house, hotel, factory, church, hall, opera-house, and stable shall be construed as one building; provided, that where a fire-wall in any building divides said building, then each part so divided, although there be but one entrance, shall be separately and independently plumbed; and provided further, that private stables may be connected with the house-drain.

Notice of
change of
business, etc.

Plumbing
and ventila-
tion.

Separate
houses.

Fire walls,
etc.

Private sta-
bles, connect,
etc.

House drain
inside walls
and under
building.

That portion of the house-drain which is inside the walls and underneath the building, and three feet outside the area or foundation walls, shall be constructed of what is known as extra-heavy cast-iron soil-pipe, and extra-heavy fittings, the weight of pipe to be as follows: Standard cast-iron soil-pipe may be used where it is in an exposed position.

Extra heavy
pipe.

Standard
pipe.

Weight of
pipe

2-inch,	5	pounds	per foot.
3-inch,	9	"	"
4-inch,	$12\frac{1}{2}$	"	"
5-inch,	$16\frac{7}{8}$	"	"
6-inch,	$19\frac{1}{2}$	"	"
7-inch,	$26\frac{1}{2}$	"	"
8-inch,	33	"	"
10-inch,	$44\frac{1}{2}$	"	"
12-inch,	$53\frac{1}{2}$	"	"

Fittings and
pipe not to be
coated.

Fittings and pipe are not to be coated inside or out, unless by permission of the said Inspector. They shall be securely ironed to the walls, laid in trenches of uniform grade, or suspended to the floor timbers by strong iron hangers to be approved by the Inspector. In

Iron to walls
etc.

all cases a brass clean-out connection shall be placed in main drain near exit from building, also in all branch drains near exit into main drain, each of said clean-outs to be placed in an accessible location unless in some other location by the consent of the said Inspector; the size of each of such clean-outs shall be not less than three inches in diameter.

Brass clean-outs.

SEC. 21. All drain and soil-pipes shall have a uniform fall of not less than one-fourth of one inch per foot, toward the sewer, and when such grade cannot be obtained a special permit may be obtained from this department for a less fall per foot.

Uniform fall $\frac{1}{4}$ -inch per foot.

SEC. 22. House-drains when not running into or underlying a building may be of glazed vitrified stoneware pipe, laid at uniform grade of not less than $\frac{1}{4}$ inch to the foot, the joints to be made with Portland cement mortar composed of one part cement and one part clean, sharp sand; wiped out carefully on the inside and well pointed on the outside; provided, that when terra-cotta pipe is used for drain purposes it shall be car-

Stoneware pipe.

Grade.

Cement.

Wiped out.

Five ft. from walls, etc. ried not less than five feet beyond the wall of any house, cellar or vault, except by a special written permit from said Inspector.

Relieving arch.

SEC. 23. When any drain-pipe passes through or under the walls of a house a relieving arch shall be turned over it with a clearance of two inches on either side to protect it from breakage by the settling of the wall.

Privy or cess pool.

SEC. 24. No privy or cess-pool shall be connected with the sewer or house-drain. All drains shall be run as straight as practicable, changes in direction to be made with regular fittings, and all connection shall be made with Y's or sanitary T's.

Soil pipes not less than four inches, two feet above roof, etc.

SEC. 25. Soil-pipes receiving the discharge from one or more water-closets, shall be extra-heavy soil-pipe, except where a pipe is in an exposed position, in which case standard cast-iron pipe shall be used (as specified in section 5), and not less than four inches internal diameter, and shall continue of undiminished size, not less than two feet above the highest roof of building, or contiguous property, and above and

away from any window, or ventilating shaft of a living room, and shall be left upon at the top.

SEC. 26. No waste-pipe shall be less than one and one-quarter inches for one fixture and not to exceed two fixtures; one and one-half inches for three fixtures, and not to exceed four fixtures. Lead waste shall not be of less weight than the grade D. In no case shall the waste pipe from any other fixture connect to the house side or in the seal of the water-closet trap; all such connections to be made so that the seal of the water closet trap will not be disturbed. All waste-pipes to be of cast-iron, lead, brass or galvanized iron.

Waste pipes
not less than
1¼ inches.

Weights.

How con-
nected.

Cast-iron,
lead or brass.

SEC. 27. No refrigerator, or other receptacle in which provisions are stored, shall be connected with drain, soil, waste, or vent-pipe, or discharge on the ground beneath the building, but in every case there shall be an open trapped tray beneath the refrigerator or other receptacles, the waste from which must discharge into a sink or other fixture.

Refrigera-
tors; how
connected.

SEC. 28. Where two fixtures connect

Sizes of vent
pipes, etc.

into one vent, such connection shall be made with not less than 1½-inch pipe, and for three fixtures not less than 2-inch pipe, and for a water-closet not less than 2-inch pipe for forty feet or less; over forty feet 3-inch pipe must be used; provided, that vent-pipes of three or more fixtures, with waste three or four inches in diameter, shall not be less than 3-inch for twenty feet or less; over twenty feet, 4-inch.

Galvanized
wrought iron
vent pipes.

SEC. 29. All vent-pipes when not vertical, must have a continuous slope, to avoid trapping of condensation.

Vent-pipes from closets, sinks, bath tubs, basins, urinals and wash trays, shall be either lead, cast-iron or galvanized wrought iron pipe, with proper fittings.

Where a fixture is put in and discharges by means of a wastepipe into an open drain, a trap but no vent will be necessary; but the waste pipe must not exceed fifteen (15) feet in length unless approved by the Inspector.

Steam drip,
overflow
pipe, etc.
How con-
nected.

SEC. 30. No steam exhaust, blow-off pipe, drip or overflow pipes from safes under any water-closet, wash-basin,

bath, or other fixtures, shall be connected with sewer, drain, soil, waste, vent, or rain-water pipe, when within any building, but must discharge into an open tank or a condenser, from which a safe connection to the sewer or house-drain may be provided.

SEC. 31. No sewer, soil-pipe, waste-pipe, or ventilation pipe, shall be constructed of brick, earthenware or sheet metal (except as provided in section 7), nor shall chimney flues be used for such ventilators.

Breck, terra-cotta or sheet metal or chimney.

SEC. 32. All joints in cast-iron pipe shall be packed with picked oakum, and run with molted lead well caulked.

Joints to iron pipes.

SEC. 33. Connections of lead pipe with that of iron shall be made with brass, or combination ferrules, or brass soldering nipples, and of a size not less than the lead pipe, with properly wiped metal joints, and caulked or screwed to the iron pipe.

Ferrules and nipples; sizes.

SEC. 34. Every sink, bath tub, basin, water-closet, urinal, wash-tray, and every fixture having a waste-pipe, shall be separately and independently trapped with a water-sealing trap, placed

Separate traps near fixture.

Vent pipes
through roof,
etc.

Trap screw
six inches
from joint.

Newton's
sanitary
traps to be
used.

as near the fixture as practicable; traps shall be protected from syphonage and air pressure by a special vent-pipe carried through the roof or connected to the main soil-pipe above the highest fixture, and of a size not less than the waste-pipe, up to and including two-inch, over two-inch and not exceeding four-inch. Each vent-pipe shall have a trap screw placed in it, not more than six inches above where it connects with the trap, and shall extend two feet above the fixture it serves, before connecting to other vent-pipes.

SEC. 35. All traps must be placed above floors in accessible locations, when practical, and no trap shall be placed at the foot of a vertical soil or waste-pipe, traps with vent couplings must not be placed beneath floors or where they are not accessible. "Newtons" sanitary traps or any non-syphoning trap, after being tested to the satisfaction of the Committee on Health, as its equal may be used on all work in lieu of back vent-pipes, when connected with a wash-basin, sink, bath, urinal, or wash tray, which is not more than 15 feet from a main or direct vent.

✓ SEC. 36. In no case shall a soil-pipe be used as a rain-water leader. All rain-water leaders shall be trapped and shall have a hand-hole for cleaning out purposes, and when placed within a building shall be cast-iron pipe with leaded joints. Rain spouts;
how used
trapped.

SEC. 37. Safe, waste, drip or overflow pipes from tanks or cisterns shall be run to some place in open sight; but in no case shall any such pipe connect with drain, soil, waste, vent or rain-water leader. Safe, waste,
etc.

✓ SEC. 38. Every water-closet within a dwelling shall be either enameled iron or earthenware syphon jet closets, or wash-out closets with traps and vents to be supplied from tanks or cisterns, through flush pipes not less than one and one-quarter inches internal diameter. Kinds of
closets.

The Inspector shall be allowed to grant special permits for the use of flushing rim hoppers, with reservoirs, in basements, cellars, and exposed places where conditions are favorable. All closets in yards must be frost-proof, and supplied with anti-freezing valves,

reservoirs, flushing rim bowls, and flush pipe not less than one and one-quarter inch internal diameter.

Pan or plunger closets;
when remov'd

SEC. 39. Whenever a whirl-pool, pan, or plunger water-closet shall be removed for repairs or other causes it shall not be replaced, except by permission of the Inspector of Plumbing.

Water closets;
where located.

SEC. 40. Water-closets must not be located in any sleeping apartment, nor in any room or apartment which has not direct communication with the external air either by a window or air shaft having an area to the open air of at least four square feet.

Water closets
prohibited.

SEC. 41. Direct service of a water-closet is always objectionable, and in case a water-closet is on the second or higher story of a building, it is absolutely prohibited. Wooden wash-trays and sinks are absolutely prohibited in any building. They must be of non-absorbent material.

Wooden sinks
and trays
prohibited.

Quality of
material and
workman-
ship.

SEC. 42. All material used must be of good quality, and free from any defect; the work must be executed in a thorough and workmanlike manner, and subject to the approval of the President

of the Board of Health and the Inspector of Plumbing.

SEC. 43. All works must be left un- Examination covered for examination.

SEC. 44. Pipes must be concentrated Pipes concentrated as much as possible, and when placed within walls or partitions they must, if practicable, be covered with wood-work, fastened with screws, so as to give Wood-work and screws. ready access for inspection and repairs, or else extra-heavy pipe shall be used.

SEC. 45. Repealed.

SEC. 46. The whole system of drain, soil, waste and ventilation pipes shall Proving pipes. be filled with water or subjected to an air pressure of five pounds to the square inch, and in all cases where only a part of the system has been tested the Inspector shall require an additional test of the whole system, and it shall be absolutely tight; and the Inspector shall so certify on the face of the permit, and no plumbing shall be used until such certificate is made by the Inspector. In all buildings erected prior to January 1, 1896, which may require alterations or additions in drainage, plumbing or ventilation, the owner or agent shall Buildings prior to January 1, 1906, which require alteration, etc.

have the drainage, plumbing or ventilation in such alterations or additions done in accordance with the requirements herein set forth.

Penalties, etc. SEC. 47. Any person violating any provision of this ordinance, or any requirement made of him by the Inspector under the powers of this ordinance, shall be liable to a fine of not less than two nor more than one hundred dollars; every day of failure to conform to such provision or requirement, after having been so fined, shall be a separate offence.

AN ORDINANCE

Approved December 12th, 1902.

Creating a Board for the Examination of Plumbers, Prescribing the Duties of such Board and the Conditions Upon Which Licenses May be Granted for the Doing of Plumbing Within the City of Richmond, and Prohibiting the Doing of Plumbing, Except by Persons Duly Licensed.

Be it ordained by the Council of the City of Richmond:

1. That a Board for the examination of plumbers is hereby created, to be composed of the President of the Board of Health of the City of Richmond, the Inspector of Plumbing, and two other residents of the City of Richmond, to be

elected by the City Council, one of whom shall be a journeyman plumber and the other of whom shall be a master plumber, which two last-mentioned members shall be licensed plumbers, the term of office of whom shall be from the date of their qualification to the first day of July, 1904, and thereafter shall be for the term of two years.

SEC. 2. As soon as practicable after the election of the two members of the Board as provided by the foregoing section, the members of said Board shall meet for organization in the office of the Inspector of Plumbing in the City Hall, and organize by the election of one of their members as chairman and the adoption of such rules and regulations as they may deem necessary for their government and as to the examination of persons applying for licenses. The Inspector of Plumbing shall be *ex-officio* Secretary of the Board, and it shall be his duty to keep full, true and correct minutes of the proceedings of the Board and a record of all licenses issued in books to be provided by order of the Board and paid for out of the trea-

sury of the city upon the order of the Board, and drawn upon the Auditor of the City of Richmond out of any funds in the treasury of the City of Richmond not otherwise appropriated, which books and records shall be, during business hours, open for free inspection by any of the citizens of the City of Richmond.

SEC. 3. The said Board shall have power, and it shall be their duty to adopt rules and regulations not inconsistent with the laws of the State of Virginia or the ordinances of the city for the sanitary construction, alteration and inspection of plumbing and sewerage connections and drains placed in connection with any and every building of the city, by which rules the Board may prescribe the kind and size of material to be used in such plumbing, and the manner in which such work shall be done.

SEC. 4. The Board shall fix stated times and places of meeting, which shall occur not less than once in every two weeks, and special meeting may be held upon the written call of the Chairman of the Board.

ord.

SEC. 5. Every person desiring to do work at the business of plumbing within the limits of the City of Richmond shall, within thirty days after the passage of this ordinance, make written application to the Board for examination for a license, which examination shall be made at the next meeting of the Board or as soon thereafter as practicable. Said examination shall relate to the practical knowledge of the applicant as to plumbing, house drainage and plumbing, ventilation and sanitation, shall be practical as well as theoretical, and if the applicant shows himself competent and qualified to perform plumbing work, the said Board shall cause its chairman and secretary to execute and deliver to the applicant a license authorizing him to do plumbing work when his license fee has been paid, as hereinafter prescribed.

SEC. 6. Such license shall continue for one year, subject, however, to revocation by the Board for good cause shown upon written charges subscribed and sworn to, setting forth that the holder of such license is incompetent

or guilty of wilful breach of the laws or ordinances relating to sanitary plumbing, or the rules and regulations adopted by the Board, or for other causes satisfactory to the Board, of which charges the holder of such license shall have written notice of the time and place where the Board will proceed to hear evidence in regard thereto. All licenses may be renewed by the Board at the dates of their expiration. Such renewal licenses shall be granted, without a re-examination, upon a written application of the license filed with the Board and showing that his purposes and conditions remain unchanged, unless it is made to appear by affidavit before the Board that the applicant is no longer competent or entitled to such renewal license, in which event the renewal license shall not be granted until the applicant has undergone the examination hereinbefore required.

SEC. 7. The fee for each original license shall be one dollar (\$1.00), all renewals thereof fifty cents (50c.), which shall be paid into the treasury of

the City of Richmond before such license shall be effectual, and any person doing any work in plumbing within the limits of the City of Richmond without having first obtained a license, as required by this ordinance (or any person violating any of the requirements of this ordinance), shall be liable to a fine of not less than ten nor more than twenty-five dollars for each offence. The President of the Board of Health and the Inspector of Plumbing shall not be entitled to any compensation for their services as members of the Board hereby created, but the other two members of the Board shall be entitled to a salary of fifty dollars per annum, payable monthly, out of the treasury of the city, as other salaries are paid.

SEC. 8. All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

SEC. 9. This ordinance shall be in force from its passage.

